

WHAT IS CLAIMED IS:

1. A wet chip pick-up assembly comprising:
 - a cylindrically-shaped drum having a first end, a second end and a
5 plurality of spaced slots;
 - a drive assembly including a rotatable drive shaft extending through
said drum and at least one friction disc assembly fastened to said drive shaft for
rotation with said drive shaft,
 - said at least one friction disc assembly being frictionally engagable
10 with said drum at one of said drum ends;
 - a collar seated on said shaft and rotatable relative to said shaft; and
 - a plurality of comb member assemblies attached to said collar, said
comb member assemblies each including a comb member disposed in one of said
drum slots, said comb member extending outward from said one of said drum slots for
15 at least a portion of a drum rotation when said drum is rotated.
2. The wet chip pick-up assembly of claim 1, further comprising:
 - a frame having a pair of spaced first and second side walls;
 - said drum having a first plate located contiguous to said first drum end
20 and a second plate located contiguous to said second drum end;
 - said at least one friction disc assembly disposed on said drive shaft and
adapted to engage said first drum plate;
 - a second friction disc assembly disposed on said drive shaft and
adapted to engage said second drum plate; and
 - 25 a motor assembly connected to said drive shaft to rotate said drive
shaft whereupon said first friction disc assembly frictionally engages said first drum
plate and said second friction disc assembly frictionally engages said second drum

plate to cause said drum to rotate thereby causing said comb members located in said drum slots to rotate.

5 3. The wet chip pick-up assembly of claim 2, further comprising:
a first suspension ring and a second suspension ring,
each of said suspension rings being indirectly connected to one of said spaced side walls, and said drum being suspended on said suspension rings contiguous to the first and second drum ends.

10 4. The wet chip pick-up assembly of claim 3, wherein said suspension rings are formed from an ultra high molecular weight material.

15 5. The wet chip pick-up assembly of claim 1, wherein said at least one friction disc assembly comprises a rotor and a friction disc attached to said rotor.

6. The wet chip pick-up assembly of claim 1, further comprising a guide assembly comprising arcuately-shaped guide members for guiding the movement of wet chip material relative to said drum.

20 7. The wet chip pick-up assembly of claim 6, further comprising a second guide assembly for guiding wet chip material away from said drum.

25 8. A wet chip pick-up assembly comprising:
a frame having a pair of spaced side walls;
a rotatable drive shaft;

a tubular collar disposed to seat on and rotate relative to said drive shaft;

a cylindrically-shaped drum having two spaced ends and having a plurality of spaced slots therein;

5 a plurality of comb member assemblies attached to said collar, said comb member assemblies each including a plurality of spaced comb members, said comb members each being adapted to extend through one of the plurality of slots in said drum;

at least one friction disc assembly disposed on said drive shaft;

10 at least one drum plate located contiguous to one of said drum ends, said at least one friction disc assembly being frictionally engageable with said at least one drum plate; and

a motor assembly for rotating said drive shaft,

whereupon actuation of said motor assembly causes said at least one 15 friction disc assembly to engage said at least one drum plate causing said drum to rotate which, in turn, rotates said comb members.

9. The wet chip pick-up assembly of claim 8, further comprising a spring assembly seated on said drive shaft and adapted to engage and compress said at 20 least one friction disc assembly against said at least one drum plate.

10. The wet chip pick-up assembly of claim 8, wherein said at least one friction disc assembly comprises a rotor and a friction disc attached to said rotor.

25 11. The wet chip pick-up assembly of claim 10, further comprising a spring assembly seated on said drive shaft and adapted to engage and compress said at least one friction disc assembly against said at least one drum plate.

12. The wet chip pick-up assembly of claim 8, further comprising a guide assembly comprising arcuately-shaped guide members for guiding the movement of wet chip material relative to said drum.

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13. The wet chip pick-up assembly of claim 12, further comprising a second guide assembly for guiding wet chip material away from said drum.

14. A wet chip pick-up assembly comprising:

10 a cylindrically-shaped drum having a longitudinal axis, a first end, a second end and a plurality of spaced slots;

a first drum plate joined to said drum at the location of said first drum end and a second drum plate joined to said drum at the location of said second drum end,

15 said first and second drum plates each having an opening therein;

a drive shaft extending through said drum plate openings,

said drive shaft having a longitudinal axis, the longitudinal axis of said drive shaft being offset from the longitudinal axis of said drum;

20 a first friction disc assembly disposed on said drive shaft and frictionally engageable with said first drum plate;

a second friction disc assembly disposed on said drive shaft and frictionally engageable with said second drum plate;

a motor assembly for rotating said drive shaft;

25 a collar disposed on said drive shaft between said first and second drum plates; and

a plurality of spaced comb member assemblies connected to said collar, said comb member assemblies each including a plurality of spaced comb

members, each comb member being adapted to seat in one of the plurality of drum slots,

whereupon actuation of said motor assembly causes said drive shaft to rotate whereupon said friction disc assemblies frictionally engage said drum plates
5 whereupon said drum rotates causing said comb members seated in said drum slots to rotate.

15 10 15. The wet chip pick-up assembly of claim 14, wherein each of said friction disc assemblies comprises a rotor and a friction disc attached to said rotor.

16. The wet chip pick-up assembly of claim 14, further comprising:
a first compression spring seated on said drive shaft and adapted to compress said first friction disc assembly against said first drum plate; and
15 a second compression spring seated on said drive shaft and adapted to compress said second friction disc assembly against said second drum plate.

20 17. The wet chip pick-up assembly of claim 14, further comprising a guide assembly comprising arcuately-shaped guide members for guiding the movement of wet chip material relative to said drum.

18. The wet chip pick-up assembly of claim 17, further comprising a second guide assembly for guiding wet chip material away from said drum.

25 19. The wet chip pick-up assembly of claim 2, wherein said friction disc assemblies each comprise a rotor and a friction disc attached to said rotor.

20. The wet chip pick-up assembly of claim 1, further comprising a motor assembly connected to said drive shaft to rotate said drive shaft.